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1. An aqueous herbicidal composition, comprising:
 - a glyphosate-based active ingredient present at a concentration range of about 0.08 to 2.0% by weight of a ready-to-use composition; and
 - a saponified or non-saponified fatty acid-based active ingredient present at a concentration range of about 0.1 to 3.0 percent by weight of a ready-to-use composition.
 2. The composition of claim 1 wherein the glyphosate-based active ingredient is selected from the group consisting of N-(phosphonomethyl)glycine and the isopropyl amine salt of N-(phosphonomethyl)glycine.
 3. The composition of claim 2 wherein said fatty acid-based active ingredient is saponified or non-saponified and is selected from the group consisting of caprylic acid, pelargonic acid, capric acid, undecanoic acid, 10-undecanoic acid, lauric acid, oleic acid, and mixtures thereof.
 4. The composition of claim 2 wherein said fatty acid-based active ingredient is saponified or non-saponified and is selected from the group consisting of soybean fatty acid and coconut fatty acid.
 5. The composition of claim 1 wherein the saponified fatty acid-based active ingredient is selected from the group consisting of partial or complete calcium, potassium and ammonium salts.

6. The composition of claim 2 wherein the fatty acid active ingredient comprises pelargonic acid and an emulsifier component.

7. The composition of claim 2 wherein the fatty acid active ingredient comprises pelargonic and capric acids, at a ratio of about 1:1, and an emulsifier component.

8. The composition of claim 2 wherein the fatty acid active ingredient comprises the sodium or potassium salts of pelargonic acid, capric acid and coconut fatty acid, the fatty acid salts being present at a ratio of about 1:1:2.

9. The composition of claim 2 wherein the fatty acid active ingredient comprises the sodium or potassium salts of soybean fatty acid and coconut fatty acid, the fatty acid salts being present at a ratio of about 1:1.

10. The composition of claim 1 further comprising an emulsifier component.

11. A method of controlling the growth of unwanted vegetation, comprising the steps providing the herbicidal composition of claim and applying the composition to the unwanted vegetation at a volume of 47 to 347 liters per hectare.

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